The Augmented Cell Meat Production Project – the use of digital twins

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Speaker	
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Bio	Mads Rostgaard Sonne is a researcher at the section of Manufacturing Engineering at the department of Mechanical Engineering at DTU in the group lead by Professor Jesper Hattel. He received his PhD in 2014 with the topic of modelling the deformation of flexible stamps for nanoimprint lithography. After a one year postdoc on the European project Plast4future with LEGO and FIAT as industrial partners, he was in 2015 employed as a researcher. Mads is now involved in a variety of projects all focusing on development of thermomechanical models for simulating different manufacturing processes and materials. He is now particularly involved in the Grand Solutions project Augmented Cellular Meat Production with the overall goal of a digitalization of the slaughter house business and with the focus on developing models for a digital representation of carcasses in the production.
Presentation	
Title of presentation	“The Augmented Cell Meat Production Project – the use of digital twins”
Abstract of presentation	The Augmented Cellular Meat Production (ACMP) project is a collaboration between Danish research institutions and industry with the aim of improving meat production from being conveyor

	belt based to cell based. Part of this effort is to use on-line computer prediction of 3D configurations of carcasses based on 2D scans and deformation calculations with finite element models. The concept will be explained alongside with simple examples.